Step 1 - Vent Install

Youtube Video

2 person minimum

Warning: This step requires the use of a ladder and climbing onto the roof of a van. Having a second set of hands to help stabilize a ladder and assist is strongly advised.

Warning: Safety glasses are critical for this step as there are chips of metal produced. You do not want a chip of metal in your eye.

a. Tools
    i. Hammer
    ii. Drill
    iii. Step bit up to 1”
    iv. Center punch
    v. Measuring tape
    vi. Saw for metal - jig saw or Sawzall
    vii. Metal cutting blade for saw

2. Hardware
    a. Max air vent or equivalent - supplied by the customer
    b. Butyl tape or equivalent - supplied by the customer
    c. Sikaflex or equivalent - supplied by the customer
    d. Rustoleum paint or equivalent - supplied by the customer
3. Procedure
    a. Measure the hole center point using a tape measure
        i. Find the centerline of the vehicle by measuring btw fixed points(find two screw holes that are symmetric across the centerline of the vehicle)
        ii. Place template and confirm no interference with van ribs or structural members
        iii. Once the template is centered and parallel to the van ribs mark the center hole with the marker
        iv. Drill this hole using a step bit
            1. Use center punch to mark the center point of the mark
        v. Once the hole is drilled move to the top of the vehicle and align the template with newly created hole
            1. Make sure the template is parallel to the known rib
        vi. Mark corners of the vent template with marker
        vii. Drill these 4 points with step bit
            1. Make sure to place bit inside the square not on the exact corner
        viii. Use jig saw to cut the lines btw the 4 holes just drilled
        ix. Place vent in newly created square hole
            1. Check for fit and any interference
            2. If interference use jig saw to cut away
        x. Use butyl tape to build up flat bed area under vent
            1. Bring up to the height of the ribs or and protruding elements
        xi. Apply Sikaflex or equivalent to this bedding
            1. Similar to putting icing on a cake
            2. Use liberal amount of sealant (up to 1.5 tubes per vent is acceptable)
        xii. Place vent on bedding with sealant

1. Make sure vent is oriented properly and wires aren't trapped in sealant/bedding
2. Screw the provided screws around the perimeter using drill with Philips bit
3. Screw it until sealant appears to squeeze out from under the rim

xiii. Apply another layer of sealant around the perimeter
xiv. Apply dabs of sealant to each fastener
1. Add about as much volume as a Hershey Kiss chocolate per fastener (It may seem like a lot but it is common practice)

4. Tips and tricks
    a. make sure to check the orientation of the vent before installing
        i. The vent hinge should be on the front side
        ii. Make sure not to get wire pinched or caught in the vent rim while installing

Step 2 - Insulation

[Youtube Video]

1 person minimum

Warning: Gloves, safety glasses, and N95 mask are recommended to reduce contact with spray adhesive.

a. Tools
    i. Scissors high quality
    ii. Safety glasses
    iii. N95 mask
    iv. Nitrite gloves (recommended)
b. Hardware
    i. Spray Adhesive - supplied by the customer
    ii. 3M Thinsulate Insulation or equivalent - supplied by the customer
    iii. Covering for seats - supplied by the customer
c. Procedure
    i. Cover up front seats with trash bags or purpose made covers
    ii. Cut pieces of insulation to fit main exposed metal panels of van
        1. Make sure not to place insulation on high point where rails and panels attach
    iii. Spray adhesive on insulation and then place in final location
        1. Check to see that its attached before attacking away support
    iv. Add chucks/scraps of insulation to any cavity spaces that are accessible
d. Tips and tricks
    i. Use a piece of scrap cardboard to catch overspray

Step 3 - Sanding kit components

Youtube Video

1 person minimum

2 recommended

Warning: N95 mask, safety glasses, and gloves are required.

a. Tools
    i. Random Orbit sander - included with kit
    ii. Spindle sander - included with kit

iii. Oscillating Tool - included with kit

b. Hardware
   i. Sanding pads - included with kit
   ii. Large Cardboard pad or equivalent -
   iii. Sanding spindles for spindle sander - included with kit
c. Tips and tricks
   i. Get a helper to assist moving the frames to avoid cracking
   ii. Save frames until completely finished with sanding/assembly

Confirm you have all the necessary parts

Step 4 Flooring, Rail Mounts, and Wall Panels

Youtube Instructions

Floor Trim Install

Render Link

Rivnut tool

Step 5 Kit Assembly

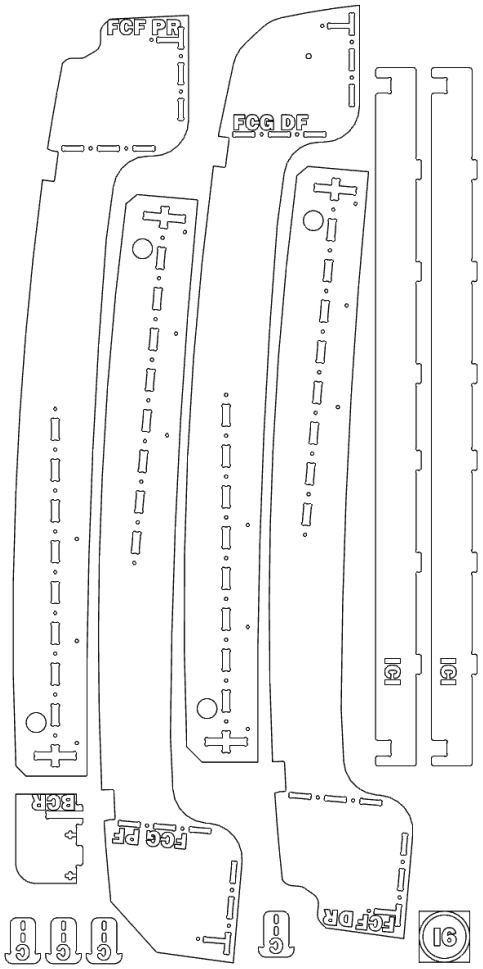
Main Assembly
Note: Video includes modules that are not included in every order.

Adjustable Raised Bed variant
Raised Bed Assembly

Dinette Bed Assembly

Special Note:

Bed upright supports on I6 have a unique orientation to account for the taper in the Promaster ceiling.
PR: Passenger Rear
DR: Driver Rear
PF: Passenger Front
DF: Driver Front



1 person possible
2 people recommended

Tools

a. Drill optional
b. T30 Torx bit
c. Needle nose pliers
d. Philips bits

Hardware

e. **Bag 1** M6 by 45mm flat head screw https://www.mcmaster.com/92125A250/
    1. Need 225
f. **Bag 2** M6 Rectangle screw by vantopia
    1. Need 225
g. **Bag 3** M8 by 90mm Button head screw https://www.mcmaster.com/92095A336/
    1. Need 13
h. **Bag 4** Clevis pin 45mm with E clips
    1. Need 6
i. **Bag 5** Washer .375” by 1.5” fender https://www.mcmaster.com/90313A115/
    1. Need 35
j. **Bag 6** Washer .375” by 2” fender https://www.mcmaster.com/90313A116/
    1. Need 2

k. **Bag 7** Nylon spacer .375 ID .75” OD by 1.25” long https://www.mcmaster.com/94639A863/
    1. Need 6
l. **Bag 8** .375” by .875” washers https://www.mcmaster.com/92141A031/
    1. Need 20
m. **Bag 9** M6 by 70mm flat head screws https://www.mcmaster.com/92125A258/
    1. Need 8
n. **Bag 10** M6 by 30mm button head screws https://www.mcmaster.com/92095A244/
    1. Need 28
o. **Bag 11** M6 washers https://www.mcmaster.com/91116A150/
    1. Need 84
p. **Bag 12** Wooden dowels .5” by 1.5”https://www.mcmaster.com/97195A116/

q. **Bag 13** Fixed casters https://www.mcmaster.com/78155T17/
    1. Need 4
r. **Bag 14** Wood Screws
s. **Bag 15** T slot frame nut https://www.mcmaster.com/5537T67/
    1. Need 28

Step 6 Module Installation
YouTube

Step 7 Finishing details
Youtube

Finishing details - Bamboo faces, countertop, bamboo locks, drawers, and tray tables

Tools
a. Drill
b. Philips bit
c. Needle nose pliers
d. Bamboo oil

Hardware
e. **Bag 25** Drawer slides 20” https://www.mcmaster.com/2712A6/
    1. Need 2 pair
f. **Bag 12** Wooden dowels .5” by 1.5” long https://www.mcmaster.com/97195A116/
g. **Bag 29** Soft close hinges by vantopia
    1. Need 32
h. **Bag 4** 45mm Clevis pins with E clips
    1. Need 27
i. **Bag 8** Washers .375 by .875”
    1. Need 200
j. **Bag 16** M8 eye rings
    1. Need 4